



## Year 6 Computing System and Networks

### Key vocabulary

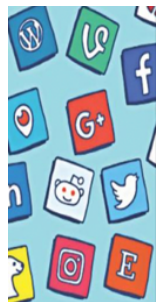
Internet	A network of networks that is used around the world to share information and communicate.
World Wide Web	A collection of webpages found on the global internet.
Search Engine	A software programme that helps people find information by using key words or phrases.
Browser	A software programme used to locate and display information on the Internet.
Google	A search engine used to search for information on the internet.
Algorithm	A process or set of rules followed by a computer to problem solve or find information.
Crawlers	A computer program that is used to search and automatically identify website content and other information on the internet.

### Selecting and Ranking Search Results

- Search engines use programs known as crawlers to index the World Wide Web.
- They 'crawl' websites for searchable information - they then store where it is found in a huge index.
- Search engines select information from this index when we type in key words.
- Searching for some search terms can bring many millions of results.
- We need to make sure that our search terms are as refined as possible, in order to allow the search engine to select the information that is most relevant.
- Search engines 'rank' the web pages (the highest at the top).
- Search engines use algorithms to do this - the algorithm looks at a number of different things and gives a webpage score.
- Some factors include if the search term is in the title of the page, or if it appears in the paragraphs.
- Web designers consider algorithms when making pages.

### Online Communication

- Communication is when we share information with one another. We can communicate in lots of different ways on the internet. Example: Messaging services, emails, social media, video calling or gaming platforms.
- Public communication is visible to all, whilst private communication is restricted to only some people. Some communication is one-way (YouTube) whilst others are two way (FaceTime).
- Some communication is to one person and some is to many more.
- We should consider which type of communication is most appropriate to our needs, safety and privacy.



### Search Engines - Introduction

We can find information on the web using search engines.

A search engine is a program that finds websites & webpages based on key words entered by users.

Some examples of search engines are : Google, Bing, Yahoo, DuckDuckGo, Kiddle.

When the World Wide Web was invented by Tim Berners-Lee in 1989 there was only one website. By 2018, there were 1,630,322,579 websites!

The world wide web is a big place, therefore, we need search engines to be able to find what we need.